Mini Converter User Manual

MSP 218 VGA/DVI/SDI to Fiber Converter

Xiamen RGBlink Science & Technology Co., Ltd.

The pictures and data in the user manual are consult only, if there is fluctuation, according to the real object please!

Contact Us

Headquarter: S603~604 Weiye Building Torch Hi-Tech Industrial Development Zone Xiamen, Fujian Province, P.R.C

Shenzhen office: Room 321, Building 3, A Baiwang Plaza, Xili Nanshan District, Shenzhen, Guangdong Province, P.R.C

Beijing office: Room 410, Building 3, Dongyi International Business Park, No.8 Gaojing Culture Garden, Chaoyang District, Beijing, P.R.C

Shanghai office: Building 3, 1358 Nong, Tongpu Road, Shanghai, P.R.C

- **Tel:** +86-592-5771197
- **Fax**：+86-592-5771202
- **Websites**：

~ http://www.rgblink.com

~ http://www.rgblink.cn

- **E-mail**：rgblinkcs@gmail.com

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1.0 Safety

	The proper use of power The operating voltage for this product is 220V. This product is only workable under correct power condition, which is already mark on the back panel of the power.
	High Voltage There are many high voltage components inside.
	Do not Remove Covers and Panels Do not remove Covers in any conditions. There are not any spare components inside for maintenance, so do not maintain this product by users themselves, any requirement, please feel free to contact our service engineer. Keep heavy device from power cord.
	Grounding the Product and Use the Proper Fuse This product is grounded through the grounding conductor of the power cord. To Avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals.
	Keep away from Magnet, Motor, TV and Transformer.
	Guard Against Damp Keep using inside clean and dryness environment, once the device get wet, must remove power cord right now.
	Keep away Exploder Do not operate the device inside dangerous and easy explosive gas, which it may make fire, blast or something without expectation.
	Keep away Pour Liquid and Fragment It is forbid to pour liquid, metal fragment or anything else inside this device to avoid fire and other accident. Once that happens, must remove power cord and try to make it clean before power on again.

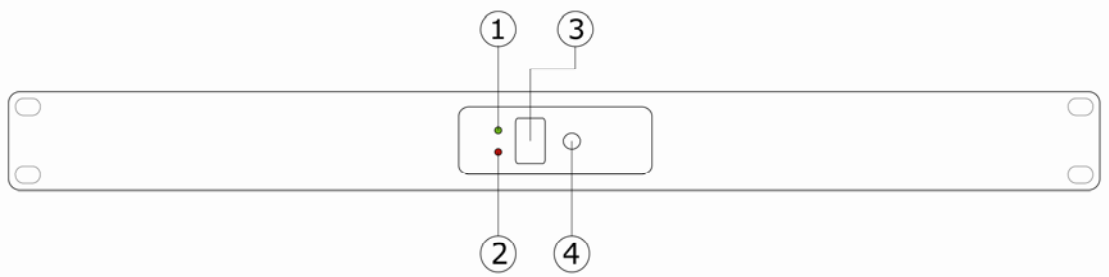
2.0 Specification

VGA Input (TX only)	
Number of Input	1
Connector	Standard DB15 socket
Supported Standards	VESA 1024x768x60;1280x1024x60;1920x1080x60;
DVI Input (TX only)	
Number of Input	1
Connector	Standard DVI-I interface
Supported Standards	VESA 1024x768x60; 1280x720x50; 1280x768x60;1280x1024x60; 1400x1050x60;1440x900x60;1920x1080x60
SDI Input (TX only, optional module)	
Number of Input	1
Connector	BNC interface
Drive	Belden 1694A 150m self-adaptive 1.485G, 200m self-adaptive 2.97Gbps.
VGA Output (RX only)	
Number of Output	1
Connector	Standard DB15 socket
Supported Standards	VESA 1024x768x60;1280x1024x60;1600x1200x60;1920x1080x60
DVI Output (RX only)	
Number of Output	1
Connector	Standard DVI-I interface
Supported Standards	VESA 1024x768x60;1280x1024x60;1600x1200x60;1920x1080x60
SDI Output (TX only)	
Number of Output	1
Connector	BNC interface
Drive	Belden 1694A 350m self-adaptive 270Mbps 150m self-adaptive 1.485G, 200m self-adaptive 2.97Gbps.
Optical Fiber Output (SFP module is optional)	
Number of Output	1
Connector	SFP
Drive	SFP module: SMPTE 297-2006 compatible photoelectric conversion interface, powerful error-free transmission signal transmit 3Gbps up to 50 Mbps 30 kilometers single mode fiber, and in the worst case, the maximum distance of 3 Gbps video pathological signal is 10 km.
Compliance	Support SDI SD-SDI,HD-SDI,3G-SDI

Extras	
Communication	RS232
Power Supply	AC 85-264 50/60Hz IEC-3 power module
Work Environment	0°C~45°C
Stored Environment	10%~90%
Product Warranty	1 year

3.0 Description of button and interface

3.1 Control panel description



1. Green light: It's on when there is DVI or VGA source input;

2. Red light: POWER lamp, it's on when the equipment is power on:

3. FORMAT LED digital, display output format value.

MSP 218 RX Receiving Panel	
Digital display	**Output format**
1	720x576_50i
2	720x480_60i
3	1280x720_50
4	1280x720_60
5	1920x1080_50i
6	1920x1080_60i
7	1920x1080_50
8	1920x1080_60
9	1024x768_60
A	1280x1024_60
B	1600x1200_60
0	No Input

MSP 218 TX Sending Panel	
Digital display	**Output format**
3	1280x720_50
7	1920x1080_50
8	1920x1080_60
9	1024x768_60
A	1280x1024_60
B	1600x1200_60
0	No Input

4. Button: used for choosing the output format or source selection;

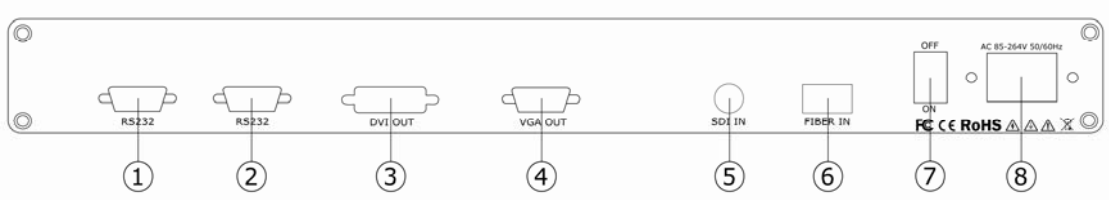
When short press the button, the relationship between sending panel and receiving panel digital display and output signal are as follows:

MSP 218 RX Receiving Panel	
Digital display	**Output format**
0	SFP(Fiber)
1	SDI

MSP 218 TX Sending Panel	
Digital display	**Output format**
0	DVI
1	VGA

When long press the button, it can recall factory settings (mainly for image dislocation).

3.2 MSP 218 RX Receiving panel interface description



1. RS232 control interface (female head) : used for console software control;

2. RS232 control interface (male head) : used for console software control;

3. DVI output: Connect the equipment which has standard DVI interface (This DVI connector does not support hot-plugging).

4. VGA output: Connect the equipment which has standard VGA interface (This VGA connector does not support hot-plugging).

5. SDI input: Receive SDI video signal from HD player, DVD, computer.

6. FIBER input: Connect special SFP fiber module, for video fiber input;

Note

Fiber need to insert SFP fiber module RX end, this module is optional module;

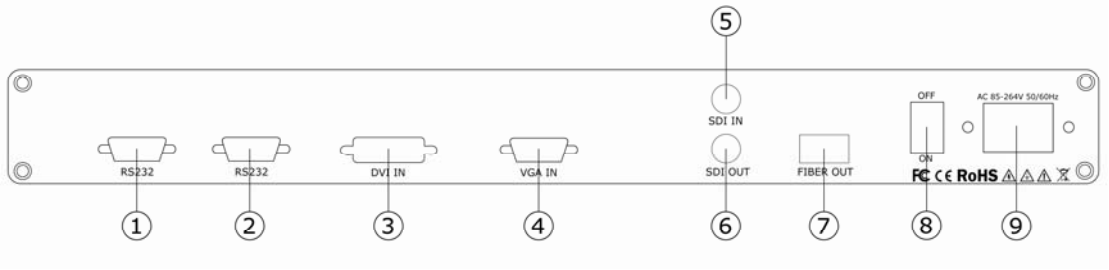
7. Switch: Power control switch;

8. Power：AC 85-264 50/60Hz IEC-3 power interface.

Note

Support automatic switching of input signal : such as if the current input signal is SDI input, or if SDI has no signal input suddenly, and fiber interface has the input signal, then the input will automatically switch to fiber input.

3.3 MSP 218 TX Sending panel interface description



1. RS232 control interface (female head) : used for console software control;

2. RS232 control interface (male head) : used for console software control;

3. DVI input: Receive video signal from computer, DVI signal generator, DVD player, connect the equipment via DVI interface (This DVI connector does not support hot-plugging);

4. VGA input: Connect PC equipment;

5. SDI input: Receive video signal from HD player, HD cameras;

6. SDI output: Support equipment with SDI input, such as MSP 203;

7. FIBER output: Connect special SFP fiber module, for video fiber output;

Note

Fiber need to insert SFP fiber module RX end, this module is optional module;

8. Switch: Power control switch;

9. Power：AC 85-264 50/60Hz IEC-3 power interface.

Note

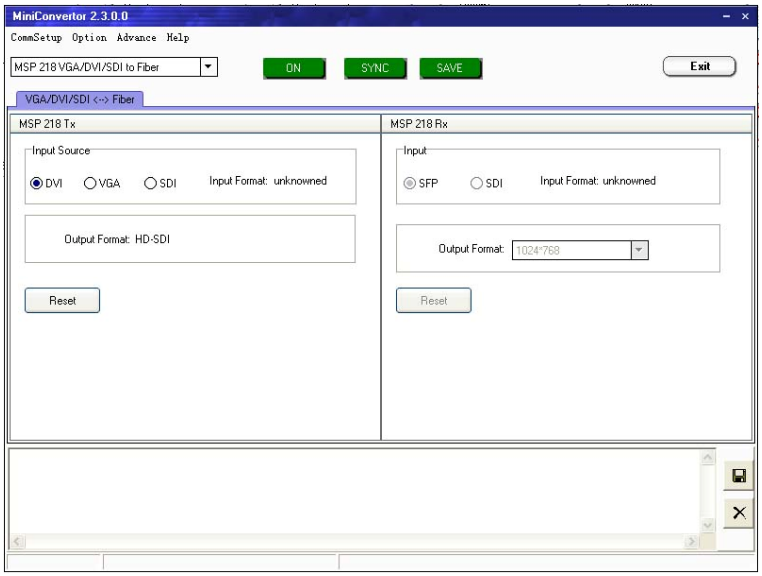
Support automatic switching of input signal : such as if the current input signal is VGA input, or if VGA has no signal input suddenly, and DVI interface has the input signal, then the input will automatically switch to DVI input.

4.0 Communication Software Control Guide

AVMSP series of mini converter is equipped with user-friendly communication control software. User can use software to select between DVI, VGA, or SDI inputs, switch to Fiber, or SDI output, and control the output resolution, DE adjustment (image shifting) and brightness contrast, etc.

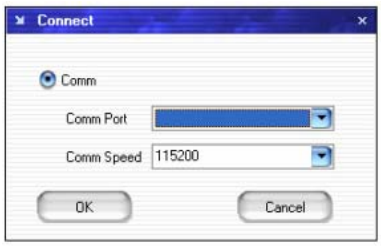
4.1 Running software

Double-click AVMSP software Mini Convertor.exe, Software interface is as follows:

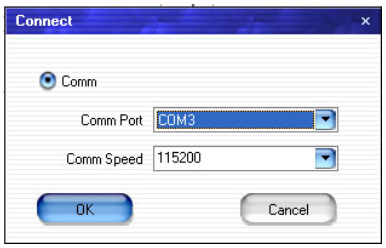


- **Serial settings**

User can set Comm Port and Comm Speed (Baudrate) through "Comm setup". User can select current using serial port by the pull-down arrow. Comm Speed should be 115200.

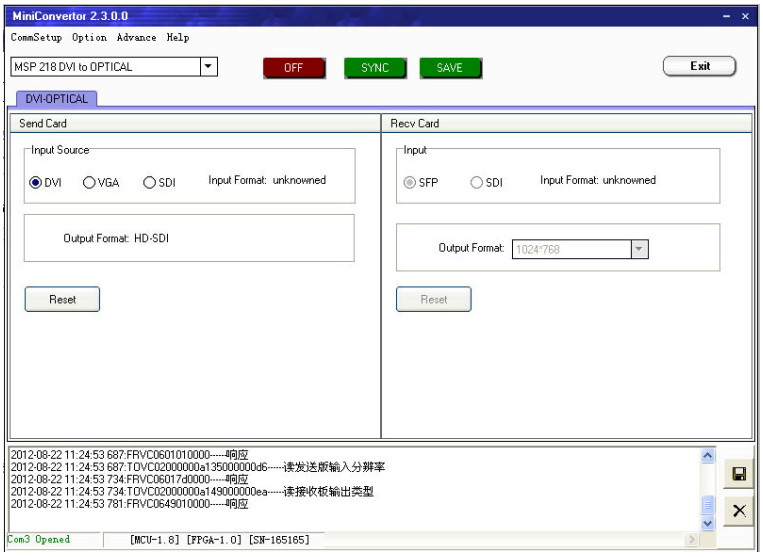


If select COM3, it's as follows:



Select OK, then click "Open" on the home page, connection is completed, then "Open" switch

to "Close", it means equipment have been connected successfully, interface as below:



- **Language settings**

This software supports both Chinese and English version, user can switch the language by "language" option.

- **Advance**

Advance menu are only for engineers, ordinary user do not need to set.

Save: User can save current log to specified path to review.

Remove: User can remove the log.

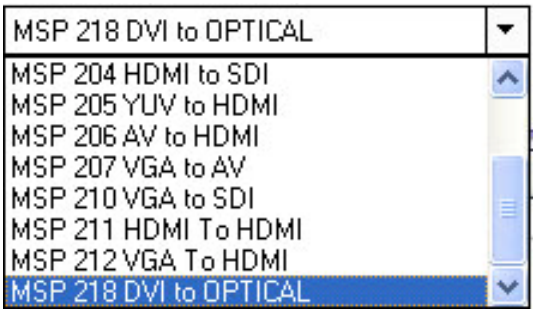
Factory Reset: Factory Reset: User can set the status to the factory status.

- **About**

User can find out the software version and related information in "About" menu.

- **How to use**

User need to choose current small converter Model in the pull-down firstly. Shown as below:


MSP 218 DVI to OPTICAL
MSP 204 HDMI to SDI
MSP 205 YUV to HDMI
MSP 206 AV to HDMI
MSP 207 VGA to AV
MSP 210 VGA to SDI
MSP 211 HDMI To HDMI
MSP 212 VGA To HDMI
MSP 218 DVI to OPTICAL

Click "on" button to open the serial, the button will become

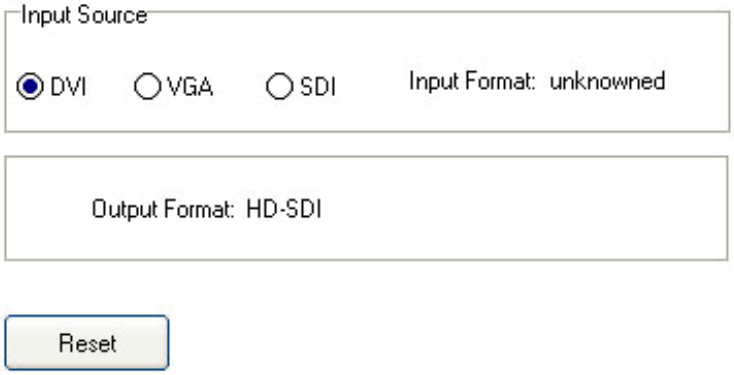
when serials opened. User can click the “OFF” button if user want to close the serial.

Click this button can realize host computer software data sync with MSP 218. (Remark：When user change input or output format, SYNC should be started to make device operate correctly.)

Save button, push to save Video output format, DE adjustment, brightness contrast position and output parameters Settings.

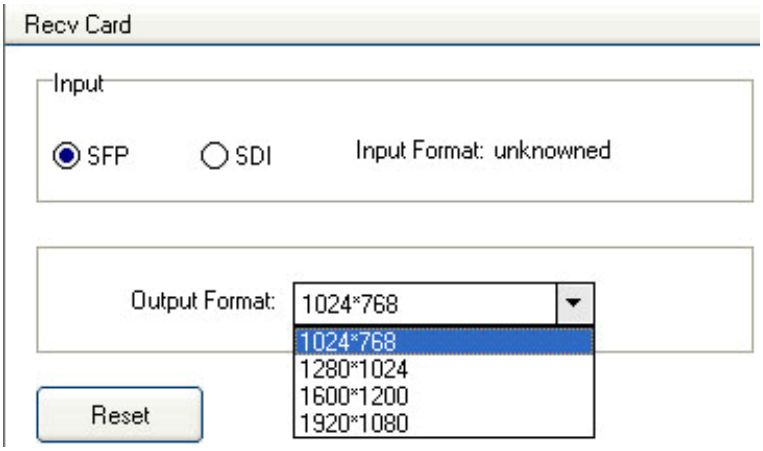
Click this button can exit software.

- **Sending Panel（MSP 218 TX）**



The equipment will read and display the signal format of DVI,VGA or SDI interface input and output resolution automatically, shown as above.

- **Receiving Panel（MSP 218 RX）**



The equipment will read and display the signal format of SFP fiber or SDI interface input and output resolution automatically, shown as above.

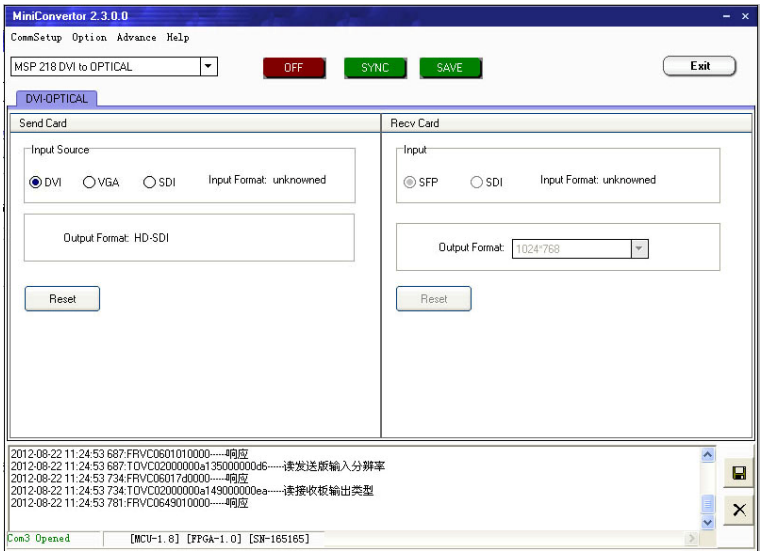
5.0 User Quick Start

1. Connect MSP 218 with output device.

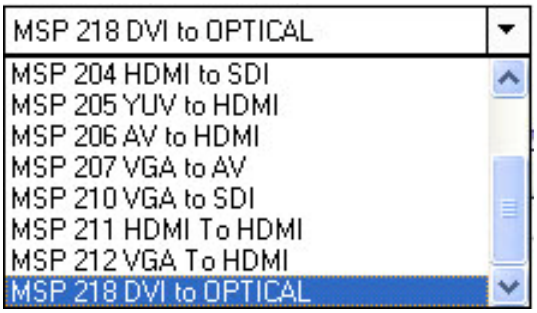
2. Connect one end of the power adapter with the device, the other end into a socket. Plug in, red power indicator light means the device works normally, and green power indicator light means the device signal input normally.

3. How does PC software control the device?
   User can use RS232 cable to realize the connection of equipment and PC to control PC;

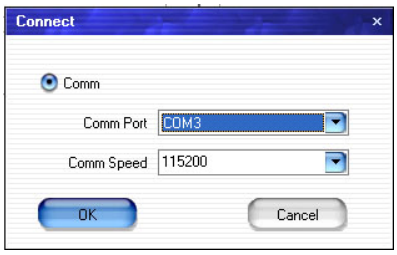
   Double click the software of AVMSP , seen as follows:



① Select current small converter Model in the pull-down.


MSP 218 DVI to OPTICAL
MSP 204 HDMI to SDI
MSP 205 YUV to HDMI
MSP 206 AV to HDMI
MSP 207 VGA to AV
MSP 210 VGA to SDI
MSP 211 HDMI To HDMI
MSP 212 VGA To HDMI
MSP 218 DVI to OPTICAL

② User can set Comm Port and Comm Speed (Baudrate) through “Comm setup”. User can select current using serial port by the pull-down arrow, such as COM3, Comm Speed should be 115200.



ON Click "on" button to open the serial, The button will become OFF.

SYNC Click this button can realize host computer software data sync with MSP 218.

(Remark：When user change input or output format, SYNC should be started to make device operate correctly.)

③ For other operations, please refer to the fourth part Communication Software Control Guide.

Save Save button, push to save Video output format, DE adjustment, brightness contrast position and output parameters Settings.

6.0 SFP Module manufacturer comments

Manufacturer 1:

TX Panel: Model CTP 13D6-11-SDI 1310nm 3G SDI 10KM T, LC interface with DDM SFP;
RX Panel: Model CRP 13D6-11-SDI 1310nm 3G SDI 10KM R, LC interface with DDM SFP;

For More Information

Shenzhen Transwan Optoelectronic Technology co., Ltd
Add: 5F B Building, Zhi Xuan Han YuanLing Industrial Park, Shi Yan, Bao'an, Shenzhen, P.R.C
Tel: +86-755-29003393, 29003397 Fax: +86-755-29003396, 22630311
E-mail: sales@transwan.com.cn website: www.transwan.com.cn

Manufacturer 2:

TX Panel: Model BY3L-7NLAN-SB-V0 3.3V 3.12G SM 10KM LC VSFP signal shot 1310nm；
RX Panel: Model BY3L-N7LNA-SB-V0 3.3V 3.125G SM 10KM LC VSFP single receiving;

Contact:
Wuxi electronic industrial park, No.43, Ximei Road, Wuxi national high-tech development zone, Jiangsu Province, China
Tel: 086-510-88153666 88152666
Fax: 086-510-88152722
www.wxkeh.com

Note

SFP fiber module of manufacturers above have been verified by our company.